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Smallpox—Annual case rates per 1,000 population; comparison of 1920 with the median of the period 1913–1919—Continued.

State.	1920							Median, 1913–1919.						
	Jan., Feb., Mar.	Apr., May, June.	July, Aug., Sept.	Oct.	Nov.	Dec.	Year.	Jan., Feb., Mar.	Apr., May, June.	July, Aug., Sept.	Oct.	Nov.	Dec.	Me- dian year.
South Carolina.....	1.0	0.7	0.2	0.1	0.4	1.4	0.6	0.1	0.2	0.0	0.1	.1	0.2	0.2
South Dakota.....	2.4	2.9	.5	.4	1.8	2.8	1.9	2.2	1.9	.6	.5	.5	1.3	1.7
Vermont.....	.0	.0	.0	1.0	.0	1.5	.3	.2	.4	.1	.0	.0	.1	.2
Virginia.....	2.9	1.7	.7	.4	.4	.6	1.4	.8	.7	.2	.3	.2	.5	.7
Washington.....	8.1	4.6	1.7	1.6	3.2	4.7	4.4	.9	1.0	.4	.2	.4	.5	.6
West Virginia.....	2.7	2.1	1.0	.7	.9	2.1	1.8	1.3	1.2	.2	.3	.8	.8	.9
Wisconsin.....	2.9	2.2	1.1	1.3	2.6	3.2	2.1	.9	.9	.3	.5	.7	1.2	.8
Wyoming.....	8.0	6.3	2.4	1.8	1.0	2.6	4.6	1.0	.5	.3	.3	.4	.3	.5
All above States.....	1.4	1.2	.4	.5	1.0	1.6	1.0	.7	.7	.2	.2	.4	.5	.5

PRINCIPAL CAUSES OF DEATH, 1920.

DEATH RATES FROM PRINCIPAL CAUSES DURING NOVEMBER AND DECEMBER AND THE LAST QUARTER OF 1920, AND COMPARISON OF RATES FOR 1920 WITH THOSE FOR PREVIOUS YEARS.

The accompanying tables are reprinted from the Statistical Bulletin of the Metropolitan Life Insurance Co. for January, 1920. The rates in these tables for the different periods of 1920 are based on a strength of approximately 13,000,000 insured persons.

Death rates (annual basis) per 100,000 lives exposed for principal causes, November and December, 1920, and year 1919.

[Industrial Department, Metropolitan Life Insurance Co.]

Cause of death.	Death rate per 100,000 lives exposed.		
	December, 1920.	November, 1920.	Year 1919.
Total, all causes.....	940.1	813.7	1,063.0
Typhoid fever.....	5.0	9.0	7.3
Measles.....	3.4	2.1	3.5
Scarlet fever.....	8.7	6.8	3.9
Whooping cough.....	4.3	2.6	3.2
Diphtheria.....	34.8	30.4	20.3
Influenza.....	8.5	5.5	96.0
Tuberculosis (all forms).....	124.1	109.7	156.5
Cancer.....	76.1	67.7	67.0
Meningitis (all forms).....	4.5	4.0	6.4
Cerebral hemorrhage.....	65.4	54.8	59.8
Organic diseases of heart.....	121.0	101.6	113.9
Pneumonia (all forms).....	85.9	51.9	117.2
Other respiratory diseases.....	17.1	14.6	17.0
Diarrhea and enteritis.....	9.6	14.3	16.9
Bright's disease.....	74.6	63.0	73.5
Puerperal state.....	17.6	14.9	20.0
Suicides.....	5.6	5.8	6.8
Homicides.....	6.8	5.1	6.9
Other external causes (excluding suicides and homicides).....	57.5	58.9	80.4
Traumatism by automobile.....	10.2	14.5	10.7
War deaths.....		.4	16.6
All other causes.....	209.5	191.0	184.9

Death rates (annual basis) per 100,000 lives exposed—Last quarters of 1918, 1919, and 1920, compared, by color, for principal causes of death.

[Industrial Department, Metropolitan Life Insurance Co.]

Cause of death.	Death rate per 100,000 lives exposed.					
	White.			Colored.		
	Oct.-Dec. 1920.	Oct.-Dec. 1919.	Oct.-Dec. 1918.	Oct.-Dec. 1920.	Oct.-Dec. 1919.	Oct.-Dec. 1918.
All causes of death.....	756.4	781.3	782.0	1,280.2	1,305.3	2,861.0
Typhoid fever.....	7.3	6.9	14.0	14.3	18.2	29.4
Measles.....	2.6	2.8	2.2	1.2	1.5	.6
Scarlet fever.....	7.0	4.8	3.1	1.2	1.2	...
Whooping cough.....	3.7	2.5	11.2	6.2	2.9	14.3
Diphtheria and croup.....	31.5	33.2	28.0	9.1	10.7	6.3
Influenza.....	5.4	9.8	1,058.8	13.8	18.2	724.2
Tuberculosis (all forms).....	95.3	106.2	166.7	255.2	281.2	343.4
Tuberculosis of the lungs.....	85.4	95.8	152.9	231.0	259.3	316.3
Tuberculous meningitis.....	4.7	5.1	5.9	6.7	6.7	7.4
Other forms of tuberculosis.....	5.2	5.4	7.9	17.5	15.2	19.7
Meningitis (total).....	3.9	5.3	6.8	3.2	4.3	5.7
Cerebrospinal meningitis.....	3.2	3.4	5.5	3.0	2.9	4.3
Cerebral hemorrhage; apoplexy.....	52.4	53.3	61.3	90.5	90.5	94.5
Organic diseases of heart.....	95.6	95.5	157.8	149.4	154.6	221.8
Total respiratory diseases.....	65.4	70.5	705.9	113.2	118.3	690.5
Bronchitis.....	5.5	6.6	14.4	10.1	10.1	13.7
Broncho-pneumonia.....	20.1	21.7	122.4	25.4	25.6	103.6
Pneumonia-lobar and undefined.....	32.3	34.8	558.3	66.1	71.8	560.0
Other diseases of respiratory system.....	7.9	7.5	10.7	11.6	10.7	13.1
Diarrhea and enteritis.....	15.5	15.9	22.3	16.8	17.9	20.8
Under 2 years.....	7.2	7.2	11.5	4.2	4.5	6.6
2 years and over.....	8.3	8.7	10.9	12.6	13.4	14.3
Nephritis and Bright's disease.....	62.7	67.4	81.9	121.3	124.4	159.0
Total puerperal state.....	15.4	14.9	55.8	27.4	26.7	43.1
Puerperal septicemia.....	6.0	4.6	6.5	14.5	13.1	10.3
Puerperal albuminuria and convulsions.....	3.9	4.5	5.1	5.2	6.4	6.9
Other diseases of puerperal state.....	5.5	5.8	44.3	7.6	7.2	26.0
Total external causes.....	66.2	67.4	197.2	96.2	90.5	141.6
Suicides.....	6.5	4.9	8.3	3.0	5.6	5.1
Homicides.....	3.1	3.1	3.3	28.8	27.0	31.1
Accidental and unspecified violence.....	56.3	59.8	73.3	64.4	56.6	81.1
Accidental drowning.....	3.0	3.4	6.3	4.9	3.5	6.3
Automobile accidents.....	14.3	12.8	13.7	6.4	10.4	9.7
War deaths.....	3	2.6	112.3	...	1.3	24.3
All other and ill-defined causes of death.....	226.4	225.0	251.0	362.2	345.3	365.9

¹ Includes "war deaths."

² Excludes "war deaths."

Death claims paid per 1,000 policies in force (annual basis) during specified months of 1918, 1919, and 1920.

Month.	Year.			Month.	Year.		
	1918	1919	1920		1918	1919	1920
January.....	13.3	10.1	10.5	July.....	10.1	9.2	8.4
February.....	12.6	17.7	16.0	August.....	10.1	8.3	8.4
March.....	14.3	15.7	15.8	September.....	9.6	8.4	7.9
April.....	14.4	13.2	11.1	October.....	18.2	8.2	8.5
May.....	12.9	11.2	9.5	November.....	38.9	8.6	8.5
June.....	10.5	9.8	9.8	December.....	22.4	9.1	9.8

Death rates per 100,000 lives exposed, for principal causes, 1911 to 1920.

[Industrial Department, Metropolitan Life Insurance Co.]

Cause of death.	Death rate per 100,000 lives exposed.									
	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911
All causes of death.....	968.4	1,063.0	1,550.2	1,161.1	1,168.1	1,130.9	1,152.8	1,109.4	1,201.2	1,253.0
Typhoid fever.....	6.5	7.3	11.5	12.1	13.0	12.9	16.1	18.4	19.1	22.8
Communicable diseases of children.....	42.3	31.5	41.6	46.8	40.8	36.4	48.2	58.1	46.2	58.9
Measles.....	8.3	3.5	8.6	11.1	9.9	5.7	6.0	12.3	7.6	11.4
Scarlet fever.....	5.9	3.9	3.6	6.0	4.1	4.6	9.8	12.7	9.0	13.1
Whooping cough.....	6.5	3.2	10.1	5.1	5.8	4.7	5.8	5.7	5.1	7.1
Diphtheria.....	21.6	20.9	19.3	24.6	21.0	21.4	25.7	27.2	24.5	27.3
Influenza and pneumonia.....	156.2	214.1	542.2	135.4	138.1	119.5	111.6	118.4	116.2	131.2
Influenza.....	52.3	96.9	272.4	14.4	23.8	13.0	11.3	12.3	12.3	15.9
Pneumonia (all forms).....	103.9	117.2	269.8	121.0	114.3	106.5	100.3	106.1	103.9	115.3
Tuberculosis (all forms).....	135.0	156.5	189.0	188.9	190.2	197.8	204.5	206.7	212.9	224.6
Tuberculosis of the lungs.....	121.5	141.6	171.1	172.3	172.8	180.0	185.2	186.6	191.5	203.0
Cancer (all forms).....	68.3	67.0	67.2	70.9	70.3	70.9	69.8	70.5	70.3	68.0
Meningitis (total).....	5.1	6.4	8.8	8.1	5.4	5.7	6.4	8.3	9.8	12.2
Cerebrospinal fever.....	1.0	1.3	2.8	3.5	1.5	1.3	1.5	1.7	3.0	(1)
Cerebral hemorrhage, apoplexy	60.1	59.8	64.0	66.8	68.7	68.5	69.2	67.2	70.3	64.2
Organic diseases of the heart.....	114.6	113.9	141.7	142.0	140.2	136.7	138.1	140.6	143.8	141.8
Diarrhea and enteritis.....	15.5	16.9	23.4	25.5	26.2	24.4	24.7	27.7	27.6	28.0
Under 2 years.....	6.9	7.5	11.6	11.9	12.5	11.3	11.9	13.2	12.8	13.0
2 years and over.....	8.6	9.5	11.8	13.6	13.7	13.1	12.8	14.5	14.8	15.0
Bright's disease.....	69.4	73.5	86.8	95.7	99.0	95.7	95.4	96.0	99.4	95.0
Puerperal state.....	22.5	20.0	27.4	18.2	17.6	18.0	19.8	20.0	18.4	19.8
Puerperal septicemia.....	8.4	6.7	7.3	7.5	7.2	7.2	8.4	9.1	8.0	8.8
Puerperal albuminuria and convulsions.....	4.9	4.8	4.9	5.1	5.0	4.8	5.1	5.3	4.8	4.7
Accidents of pregnancy.....	3.0	3.0	6.9	1.6	1.4	1.8	1.7	1.7	1.5	1.7
Total external causes.....	69.7	94.2	128.9	106.7	99.5	88.2	89.2	98.3	92.9	97.9
Suicides.....	6.0	6.8	7.6	9.3	9.8	12.2	12.3	13.5	12.4	13.3
Homicides.....	5.7	6.9	6.2	7.4	6.9	6.9	7.0	7.2	6.7	7.2
Accidents (total).....	57.6	63.8	75.5	76.5	73.2	67.3	69.9	77.6	73.8	77.4
Burns.....	7.9	8.1	9.0	8.9	8.8	8.6	8.4	9.0	9.1	8.8
Accidental drowning.....	6.6	8.6	9.4	8.7	9.7	11.9	10.0	12.1	10.2	10.2
Traumatism by fall.....	7.1	8.0	10.4	11.9	13.1	11.9	12.6	13.7	12.7	13.2
Traumatism by machines.....	1.6	1.6	2.4	2.0	1.7	1.4	1.5	2.0	1.7	1.8
Railroad accidents.....	5.1	5.7	7.8	8.5	7.9	7.4	7.5	9.0	9.2	9.5
Automobile accidents.....	10.9	10.7	10.3	9.7	7.4	5.4	4.8	4.1	3.0	2.3
Other accidents.....	18.3	21.2	26.1	26.8	21.6	20.7	25.1	27.7	27.9	31.6
War deaths.....	.5	16.6	39.7	13.5	9.6	1.8	.....	.....	.....	.....
Other diseases and conditions..	203.1	201.8	226.7	243.9	259.1	256.2	259.8	269.2	274.3	288.6

¹ Not available.

The rates presented here indicate that the year of 1920 was the best from the standpoint of mortality conditions in the history of the company and probably the best in the sanitary history of the United States. As stated above, the mortality rates of this more or less selected group are very good indices of comparative mortality conditions of the general population. The death rate in this selected group is usually from 82 to 87 per cent of the death rate in the registration area.

Among the persons insured in the industrial department of the company, the death rate for 1920 was only 9.7 per 1,000. This is 9 per cent less than the death rate for 1919, and 23 per cent lower than that for 1911. Using figures representing deaths instead of rates, this low mortality record for 1920 means that 13,000 fewer deaths occurred among the policyholders during 1920 than would have occurred had the rate for 1919 prevailed, and 38,000 fewer deaths than would have occurred if the 1911 rate had obtained.

Marked declines in the mortality from tuberculosis and influenza and pneumonia were a large factor in the improvement noted in the total mortality. Tuberculosis, which caused 13.9 per cent of the deaths in 1920, showed a death rate 14 per cent less than that for 1919, and 40 per cent less than that for 1911. Mortality from influenza-pneumonia was 27 per cent lower in 1920 than in 1919, despite the sharp return of the disease in the early months of the year.

Mortality from Bright's disease declined 27 per cent from the figures registered in 1911, and 5.6 per cent from those for 1919. According to the records of the company, the most pronounced declines in the mortality from this disease have occurred since 1917.

DEATHS DURING WEEK ENDED FEB. 12, 1921.

Summary of information received by telegraph from industrial insurance companies for week ended Feb. 12, 1921. (From the "Weekly Health Index," Feb. 15, 1921, issued by the Bureau of the Census, Department of Commerce.)

Policies in force.....	45,626,780
Number of death claims.....	8,361
Death claims per 1,000 policies in force, annual rate.....	9.6

Deaths from all causes in certain large cities of the United States during the week ended Feb. 12, 1921, infant mortality, annual death rate, and comparison with corresponding week of preceding years. (From the "Weekly Health Index," Feb. 15, 1921, issued by the Bureau of the Census, Department of Commerce.)

City.	Estimated population, July 1, 1921.	Week ended Feb. 12, 1921.		Average annual death rate per 1,000. ²	Deaths under 1 year.		Infant mortality rate. ³	
		Total deaths.	Death rate. ¹		Week ended Feb. 12, 1921.	Pre-vious year or years. ²	Week ended Feb. 12, 1921. ⁴	Corre-spond-ing week, 1919.
Akron, Ohio.....	229,195	24	5.5	5 11.1	7	5 4	67	106
Albany, N. Y.....	115,071	46	20.8	C 17.8	2	C 3	45	81
Atlanta, Ga.....	207,473	66	16.6	C 21.0	13	C 9	...	...
Baltimore, Md.....	751,537	261	18.1	A 19.1	38	A 32	107	98
Birmingham, Ala.....	186,133	47	13.2	A 18.5	6	A 6	...	...
Boston, Mass.....	757,634	201	13.8	A 18.1	23	A 40	62	97
Bridgeport, Conn.....	149,967	31	10.8	A 17.2	1	A 7	13	88
Buffalo, N. Y.....	519,608	130	13.0	C 19.7	21	C 39	81	110
Cambridge, Mass.....	110,444	22	10.4	A 17.5	2	A 5	36	70
Camden, N. J.....	119,672	41	17.9	...	7	...	...	...
Chicago, Ill.....	2,780,655	710	13.3	A 16.0	134	A 145	...	...
Cincinnati, Ohio.....	403,418	112	14.5	C 20.5	14	C 18	92	88
Cleveland, Ohio.....	831,138	204	12.8	C 13.8	32	C 32	86	95
Columbus, Ohio.....	245,838	73	15.5	C 14.8	7	C 6	81	94
Dallas, Tex.....	165,282	38	12.0	A 15.2	6	A 4	...	...
Dayton, Ohio.....	158,119	28	9.2	C 19.0	3	C 4	49	89
Denver, Colo.....	263,152	70	13.9	A 18.1	9	...	...	...
Detroit, Mich.....	1,070,450	210	10.2	...	45	...	85	97
Fall River, Mass.....	120,668	39	16.9	C 15.2	11	C 7	165	119
Grand Rapids, Mich.....	141,197	33	12.2	C 15.6	2	C 8	34	85
Houston, Tex.....	144,940	33	11.9	...	2	...	...	...

¹ Annual rates per 1,000 population.

² "A" indicates data for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1918.

³ Cities left blank are not in the registration area for births.

⁴ Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1920.

⁵ Data are based on statistics of 1915, 1916, and 1917.